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**From:** d'Almeida, Carolyn K. [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=9EC4401AFA1846DD93D52A0DDA973581-CDALMEID]  
**Sent:** 1/5/2017 8:23:06 PM  
**To:** Wayne Miller [Miller.Wayne@azdeq.gov]  
**Subject:** RE: 2017-1-5 - WAFB - FYI - SB-18 location - reiterate Lower zone well need - TPH indicators 205-216 ish - ST012- sw uxo pro

Yes, I agree.

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**From:** Wayne Miller [mailto:Miller.Wayne@azdeq.gov]  
**Sent:** Thursday, January 05, 2017 11:13 AM  
**To:** d'Almeida, Carolyn K. <dAlmeida.Carolyn@epa.gov>  
**Cc:** steve <steve@uxopro.com>; Davis, Eva <Davis.Eva@epa.gov>  
**Subject:** 2017-1-5 - WAFB - FYI - SB-18 location - reiterate Lower zone well need - TPH indicators 205-216 ish - ST012- sw uxo pro

I am perceiving a regulatory agency consensus that USAF/AMEC should be monitoring the SB-18 area, *in addition to* stepping out to characterize the TPH limits. Please correct me if my interpretation is off.

Carolyn – are SB-18 area wells (Cobble, Upper, and Lower) AND lateral extent step out soil borings AND step out wells..... items the regulatory agencies need to bring to Catherine Jerrard (USAF AFCEC) now?

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**From:** Steve Willis [mailto:steve@uxopro.com]  
**Sent:** Thursday, January 05, 2017 11:47 AM  
**To:** Wayne Miller <Miller.Wayne@azdeq.gov>  
**Subject:** 2017-1-5 - WAFB - SB-18 location - reiterate Lower zone well need - TPH indicators 205-216 ish - ST012- sw uxo

I'd still like to see an LSZ well there. South of the building may suffice but isn't directly down gradient of the perimeter LSZ wells that have recently showed LNAPL.

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**From:** Wayne Miller [mailto:Miller.Wayne@azdeq.gov]  
**Sent:** Thursday, January 05, 2017 11:05 AM  
**To:** Steve Willis  
**Subject:** 2017-1-5 - WAFB - FYI - SB-18 - possible Cobble and Upper zone sentry well location - Lower zone step out needed - TPH indicators 205-216 ish - ST012- edavis -

FYI -

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**From:** Davis, Eva [mailto:Davis.Eva@epa.gov]  
**Sent:** Thursday, January 05, 2017 11:00 AM  
**To:** d'Almeida, Carolyn K. <dAlmeida.Carolyn@epa.gov>; Wayne Miller <Miller.Wayne@azdeq.gov>  
**Subject:** 2017-1-5 - WAFB - SB-18 - possible Cobble and Upper zone sentry well location - Lower zone step out needed - TPH indicators 205-216 ish - ST012- edavis -

By their own criteria, this would be a great location for sentry wells in the CZ and UWBZ. With the positive detections of LNAPL in the LSZ, a stepout boring is definitely needed, but 200+ feet away is not a good thing – we should see about maybe moving to the south of that building? Looks like there is an outdoor storage area south of the building –

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**From:** d'Almeida, Carolyn K.

**Sent:** Thursday, January 05, 2017 10:29 AM

**To:** Wayne Miller <[Miller.Wayne@azdeq.gov](mailto:Miller.Wayne@azdeq.gov)>; Davis, Eva <[Davis.Eva@epa.gov](mailto:Davis.Eva@epa.gov)>

**Subject:** RE: 2017-1-4 - Williams AFB - Should a well be constructed in SB-18 - TPH indicators 205-216 ish - ST012 characterization -

Yes, unless they plan to do a stepout. There is CZ24/UWBZ38 to the east but it was completed at 196' according to my notes and they need something in the LSZ to the east. If they complete a well in that location is must have a steel casing to be compatible with steam and they are not doing those now.

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**From:** Wayne Miller [<mailto:Miller.Wayne@azdeq.gov>]

**Sent:** Wednesday, January 04, 2017 4:43 PM

**To:** d'Almeida, Carolyn K. <[dAlmeida.Carolyn@epa.gov](mailto:dAlmeida.Carolyn@epa.gov)>; Davis, Eva <[Davis.Eva@epa.gov](mailto:Davis.Eva@epa.gov)>

**Subject:** 2017-1-4 - Williams AFB - Should a well be constructed in SB-18 - TPH indicators 205-216 ish - ST012 characterization -

Does EPA believe a GW well should be installed at SB-18? Steve Willis, UXO Pro indicates AMEC drillers have encountered fuel/TPH odors and positive TPH dye tests in the 205'-216'-ish depth range. AMEC has not shown that there are step out plans for the SB-18 area and AMEC has shown a reluctance to place new wells in TPH-positive locations.

The borehole depth is near completion as of 1-5-2017 sundown. Thoughts? Opinions? Communications to other parties?

Thanks.

Wayne Miller

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